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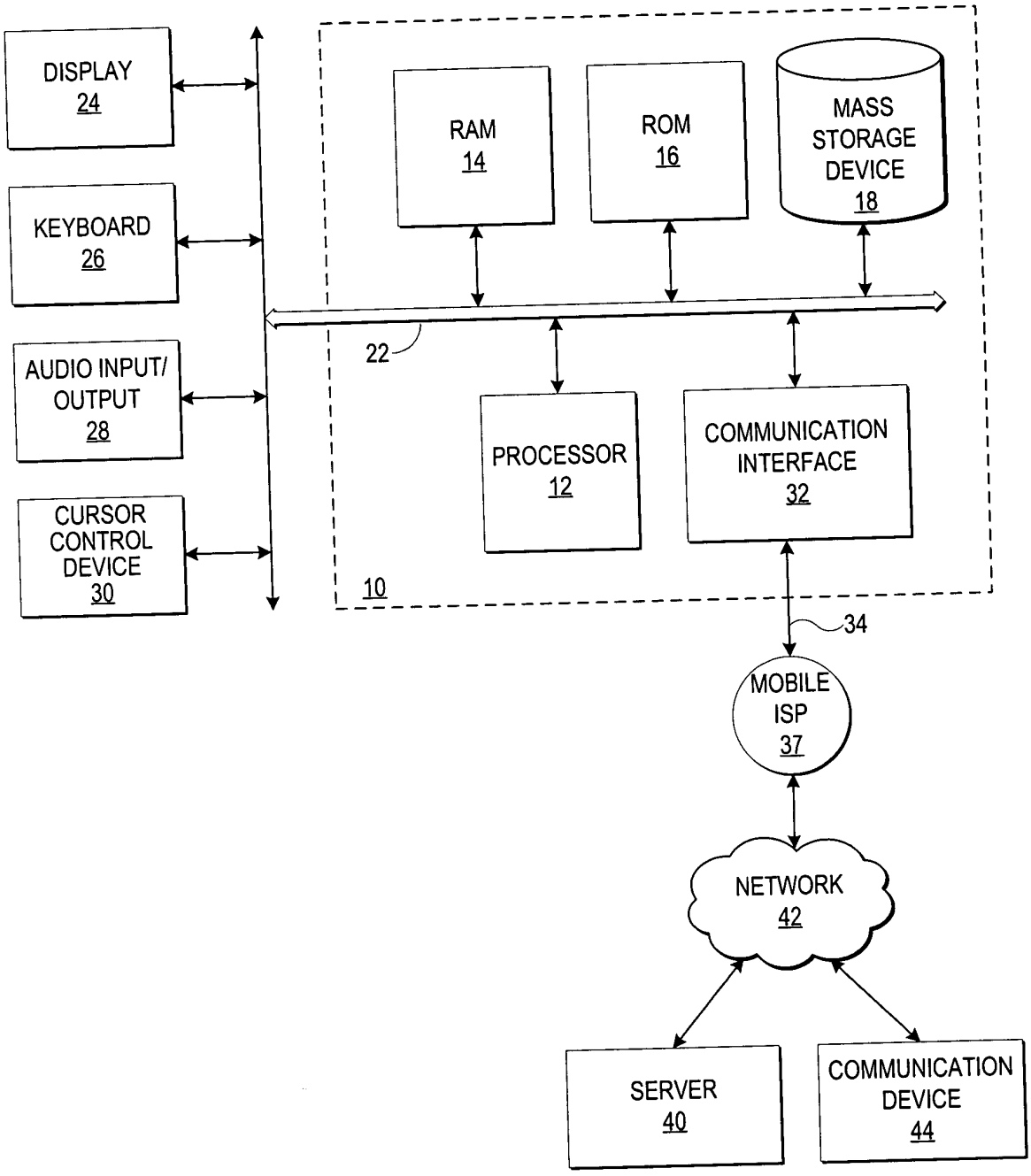

Fig. 1

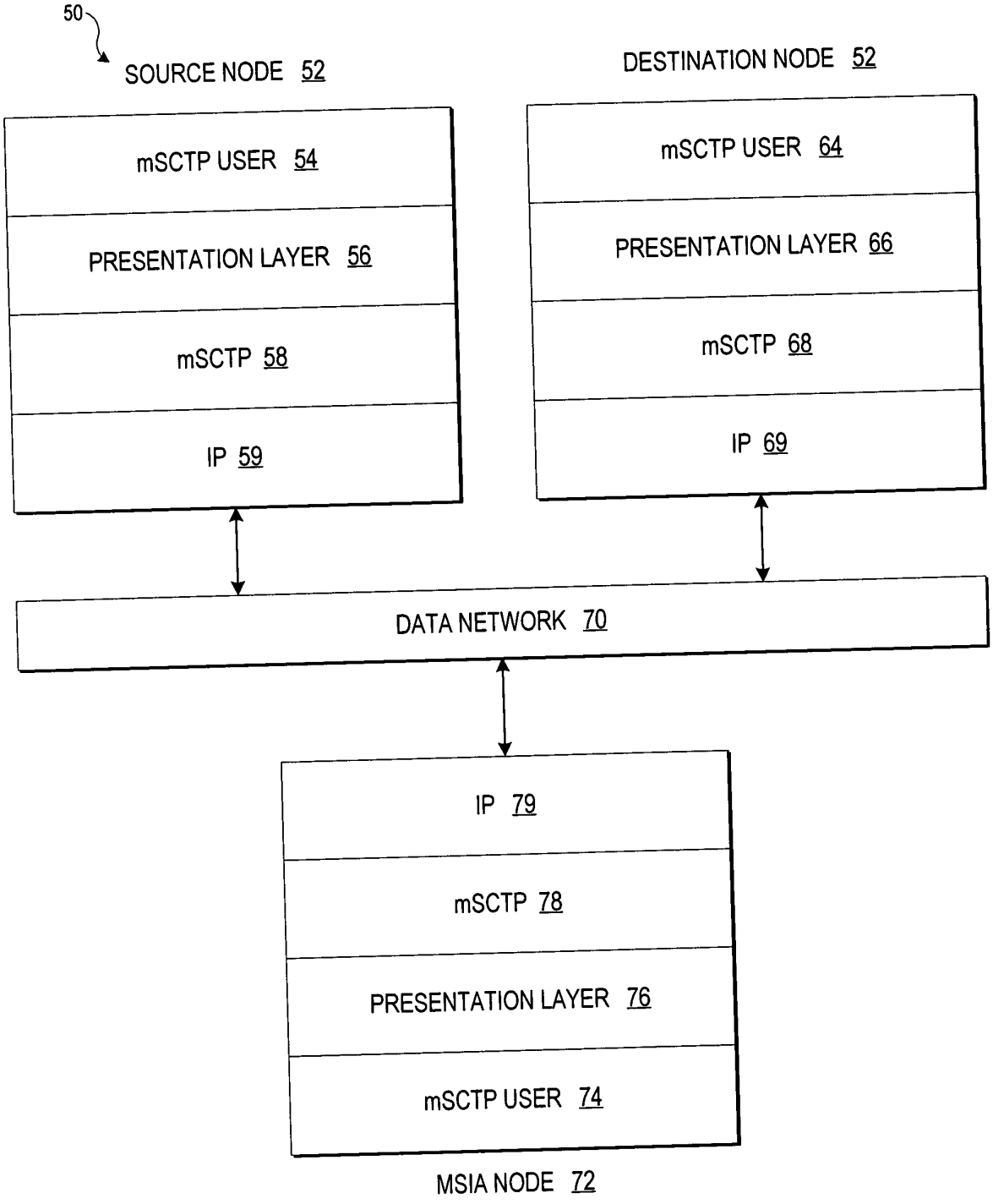
50
SOURCE NODE 52
mSCTP USER 54
PRESENTATION LAYER 56
mSCTP 58
IP 59
DESTINATION NODE 52
mSCTP USER 64
PRESENTATION LAYER 66
mSCTP 68
IP 69
DATA NETWORK 70
IP 79
mSCTP 78
PRESENTATION LAYER 76
mSCTP USER 74
MSIA NODE 72

Fig. 2

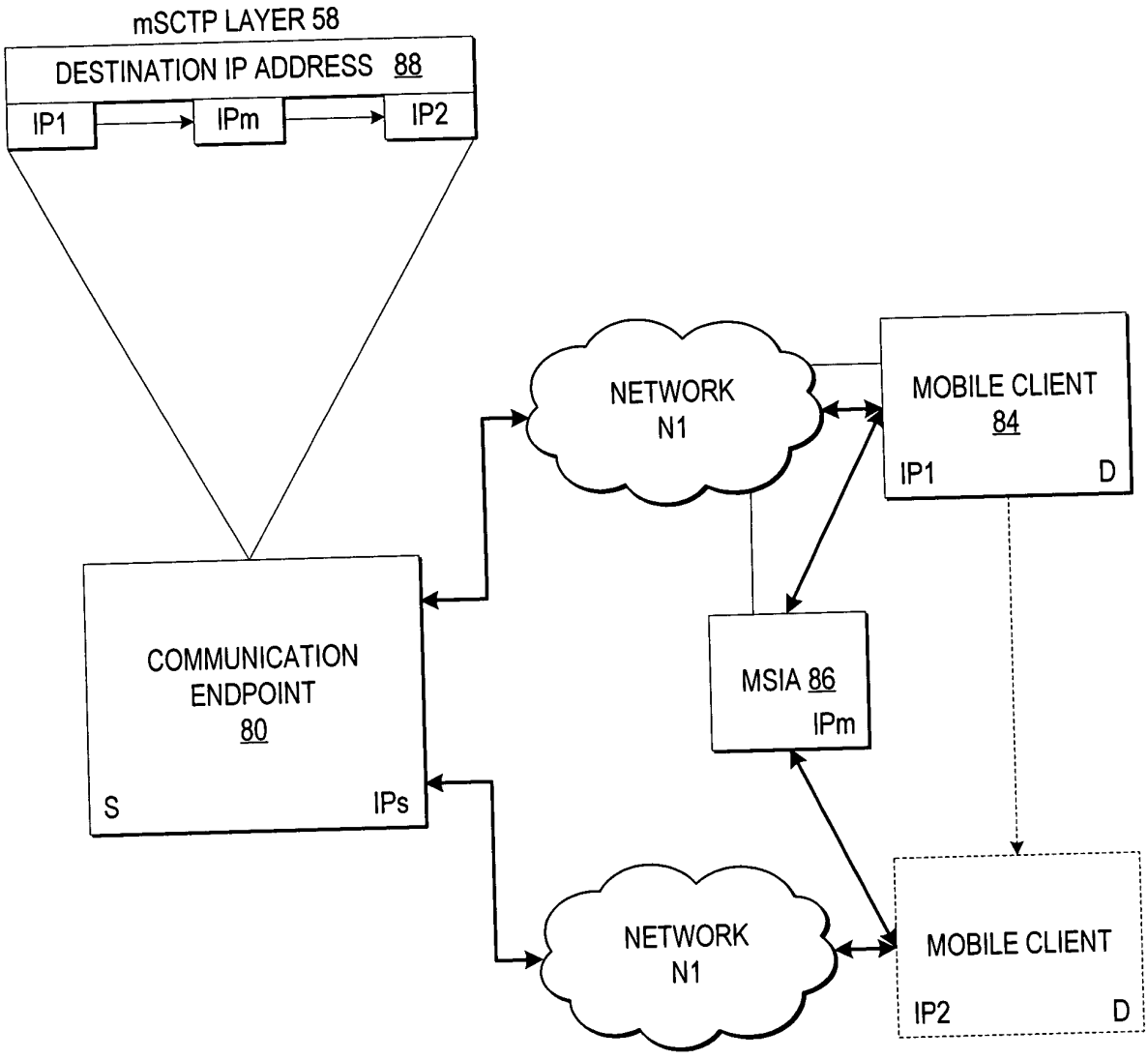
mSCTP LAYER 58
DESTINATION IP ADDRESS 88
IP1
IPm
IP2
NETWORK
N1
MOBILE CLIENT
84
IP1
D
COMMUNICATION
ENDPOINT
80
S
IPs
MSIA 86
IPm
NETWORK
N1
MOBILE CLIENT
IP2
D

Fig. 3

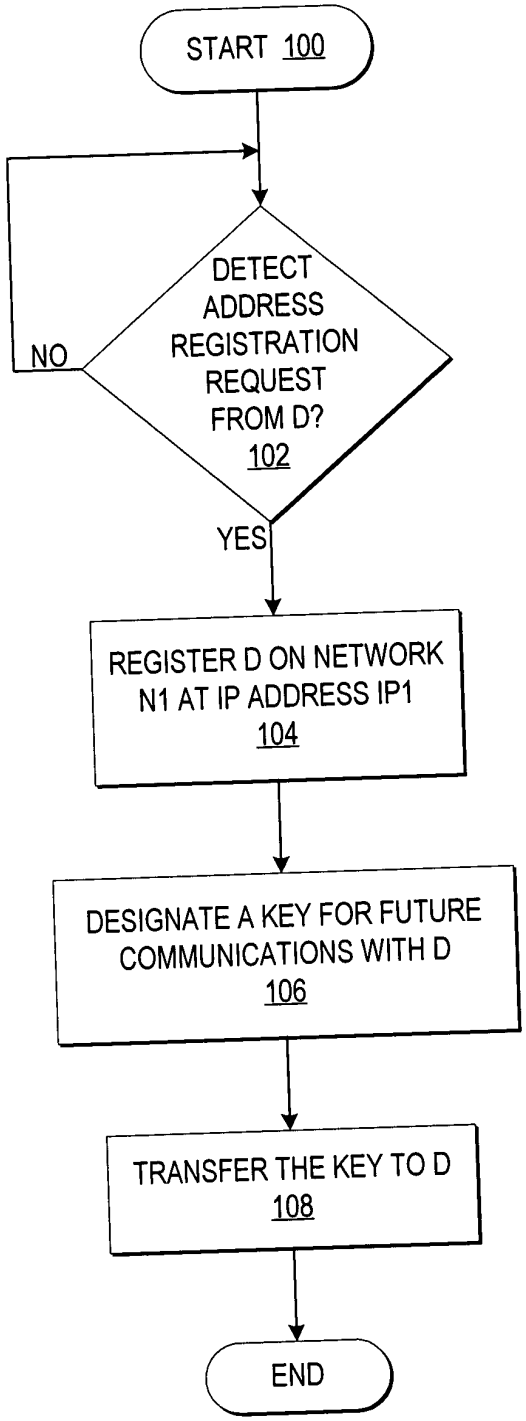
START 100
DETECT ADDRESS REGISTRATION REQUEST FROM D? 102
NO
YES
REGISTER D ON NETWORK N1 AT IP ADDRESS IP1 104
DESIGNATE A KEY FOR FUTURE COMMUNICATIONS WITH D 106
TRANSFER THE KEY TO D 108
END

Fig. 4

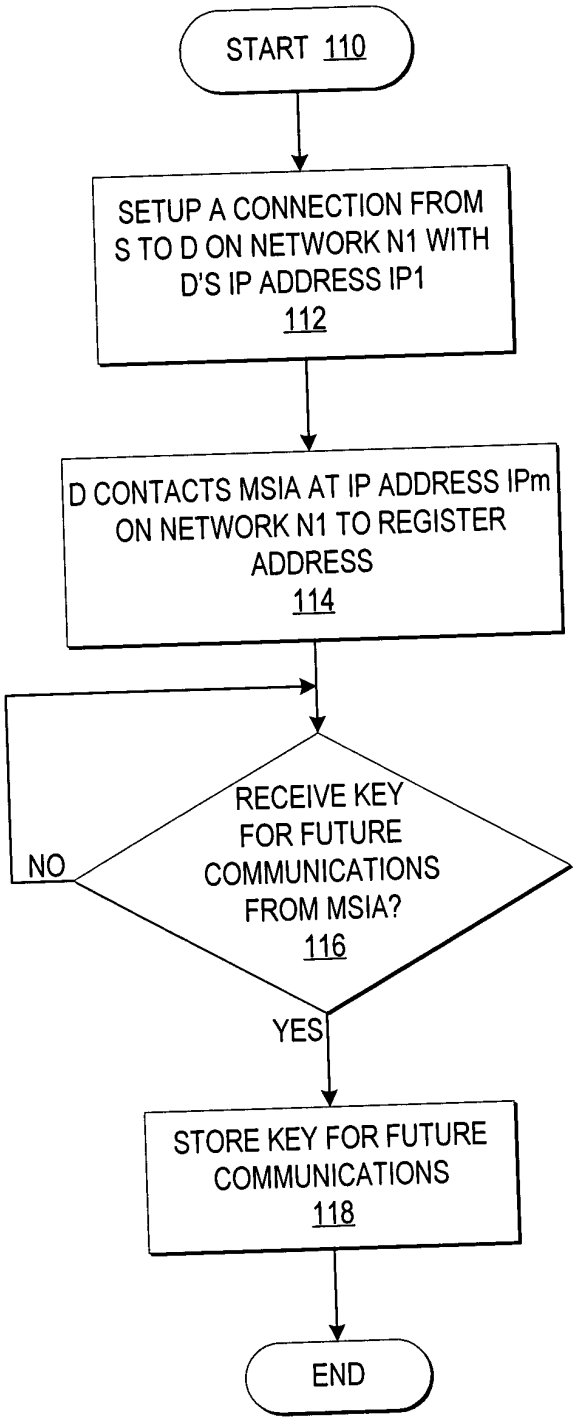
START 110
SETUP A CONNECTION FROM S TO D ON NETWORK N1 WITH D'S IP ADDRESS IP1 112
D CONTACTS MSIA AT IP ADDRESS IPm ON NETWORK N1 TO REGISTER ADDRESS 114
RECEIVE KEY FOR FUTURE COMMUNICATIONS FROM MSIA? 116
NO
YES
STORE KEY FOR FUTURE COMMUNICATIONS 118
END

Fig. 5

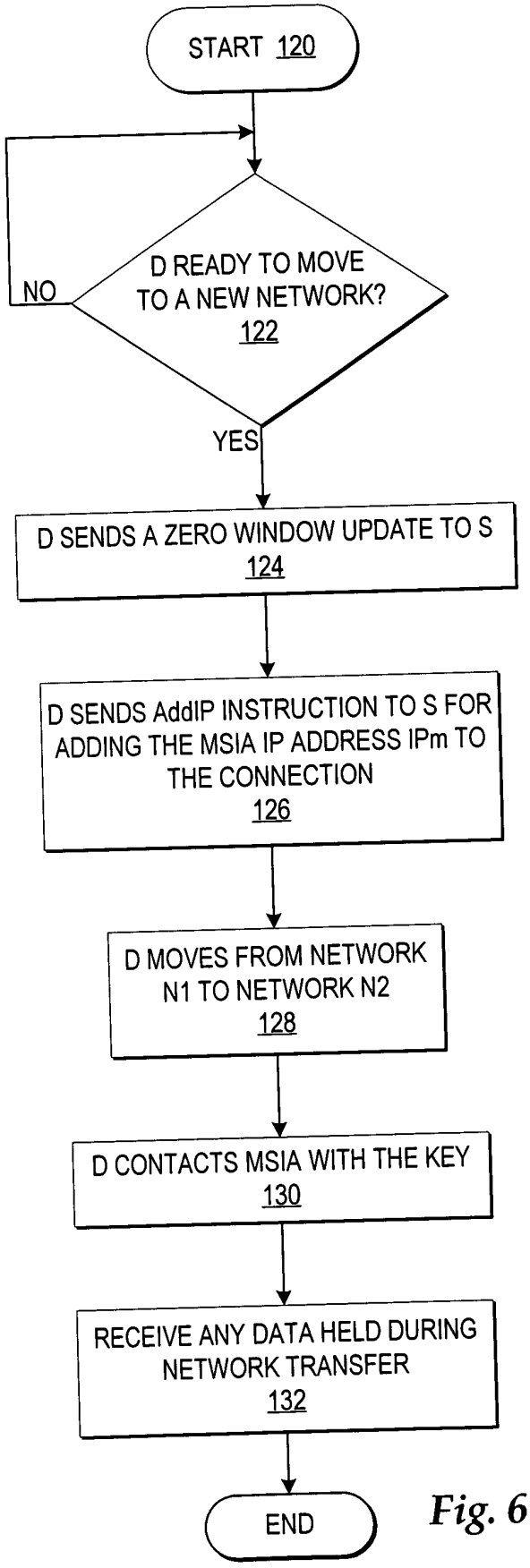
START 120
D READY TO MOVE TO A NEW NETWORK? 122
NO
YES
D SENDS A ZERO WINDOW UPDATE TO S 124
D SENDS AddIP INSTRUCTION TO S FOR ADDING THE MSIA IP ADDRESS IPm TO THE CONNECTION 126
D MOVES FROM NETWORK N1 TO NETWORK N2 128
D CONTACTS MSIA WITH THE KEY 130
RECEIVE ANY DATA HELD DURING NETWORK TRANSFER 132
END

Fig. 6

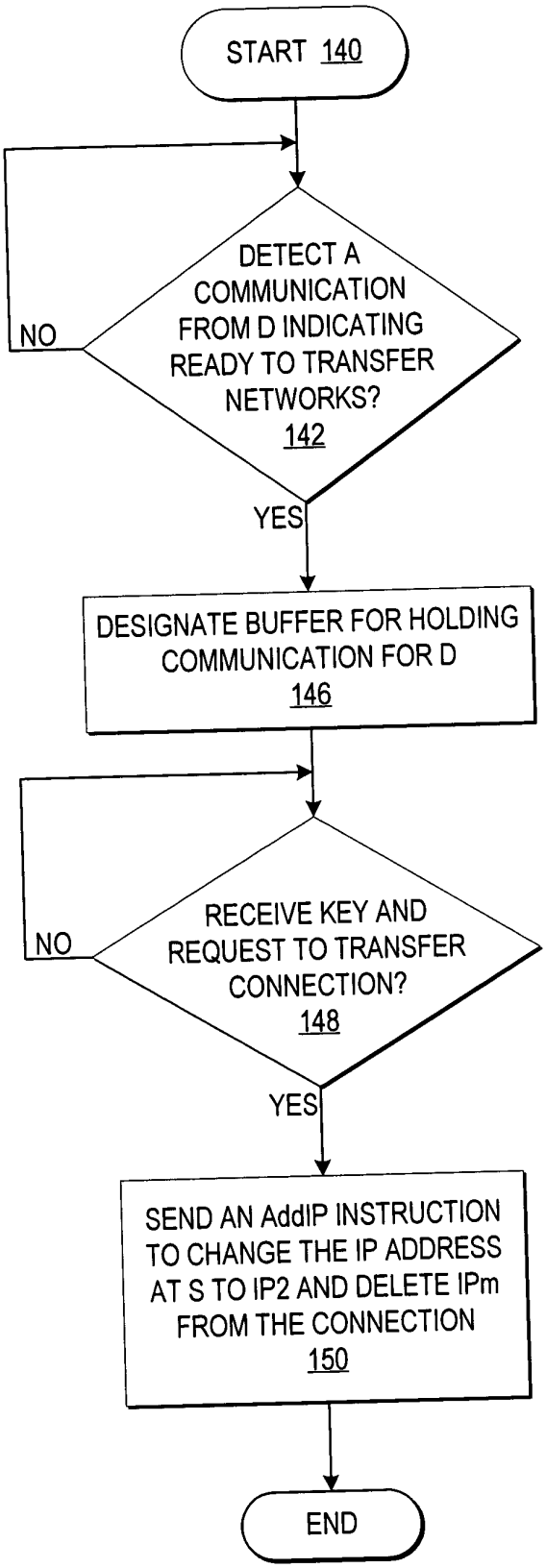
START 140
DETECT A COMMUNICATION FROM D INDICATING READY TO TRANSFER NETWORKS? 142
NO
YES
DESIGNATE BUFFER FOR HOLDING COMMUNICATION FOR D 146
RECEIVE KEY AND REQUEST TO TRANSFER CONNECTION? 148
NO
YES
SEND AN AddIP INSTRUCTION TO CHANGE THE IP ADDRESS AT S TO IP2 AND DELETE IPm FROM THE CONNECTION 150
END

Fig. 7